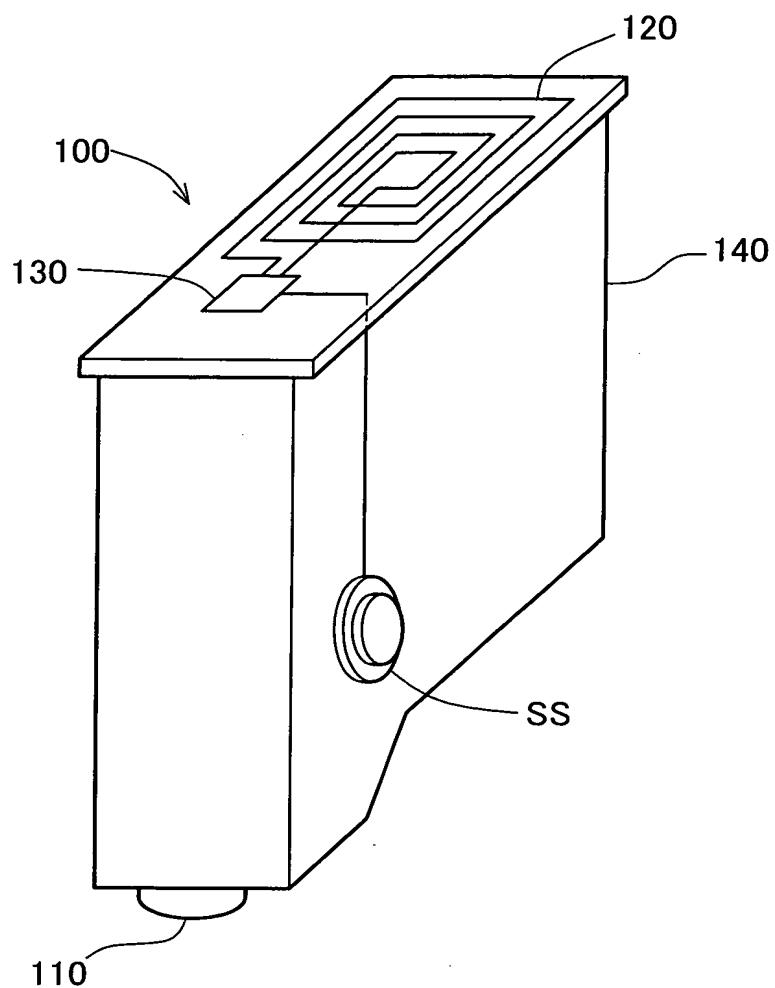


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Fig.1



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Fig.2(a)

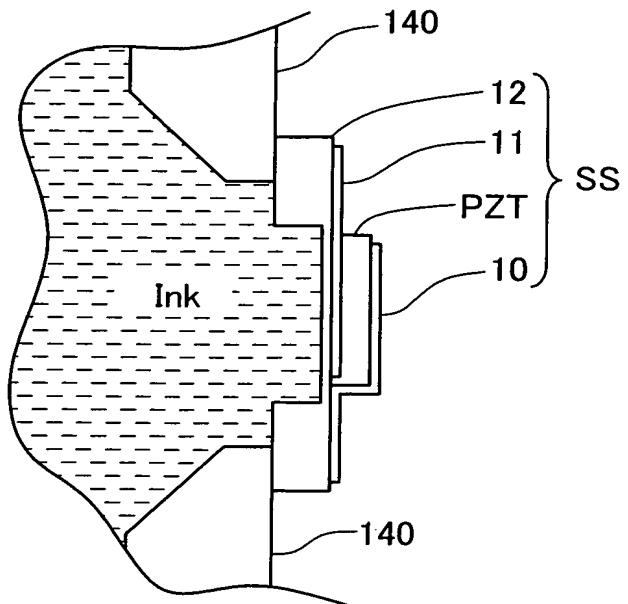
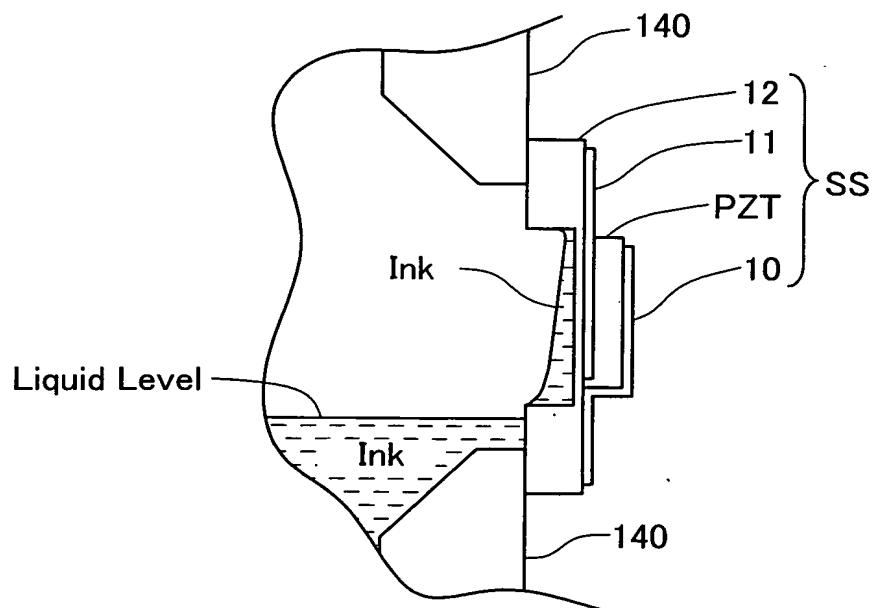


Fig.2(b)



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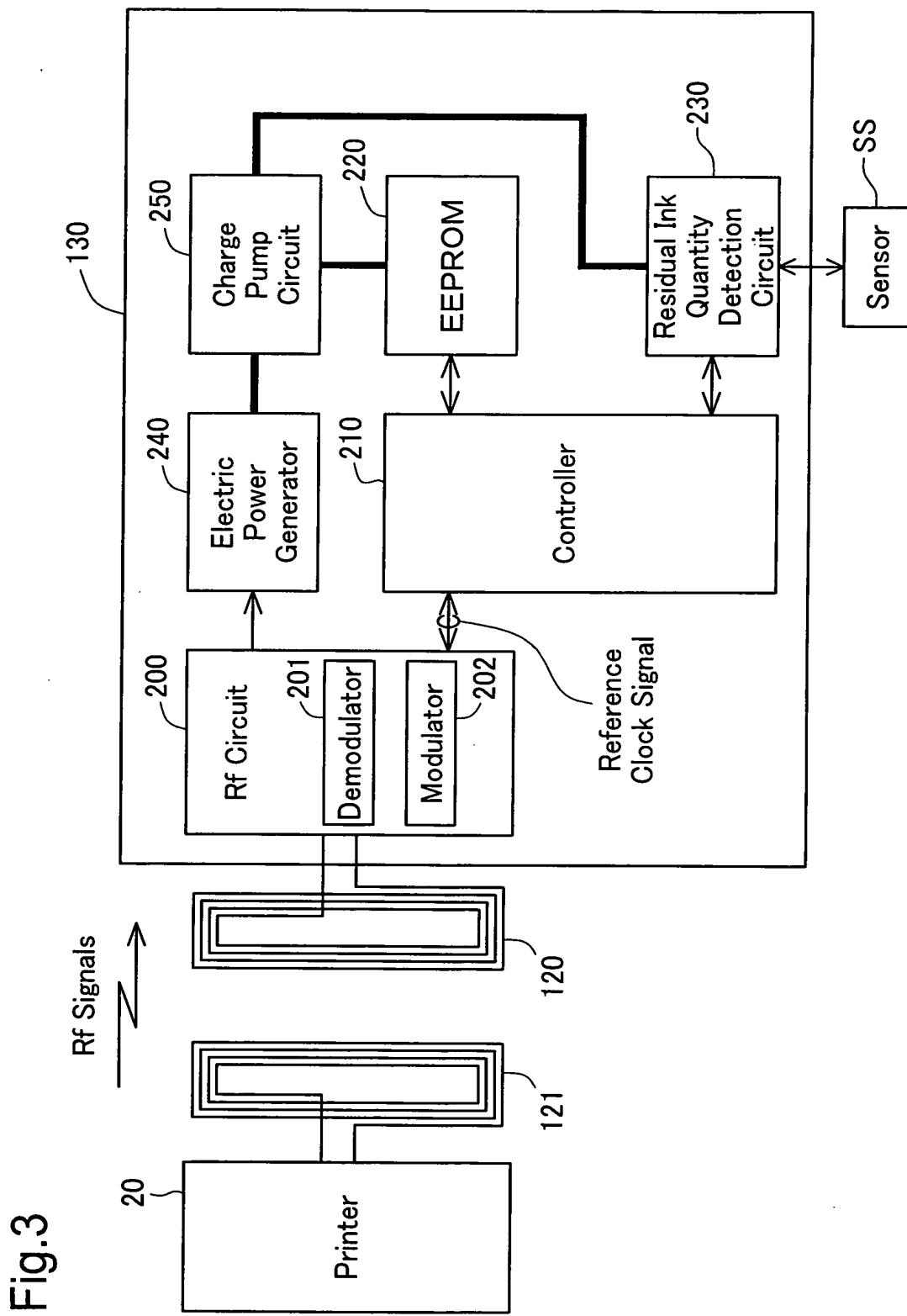
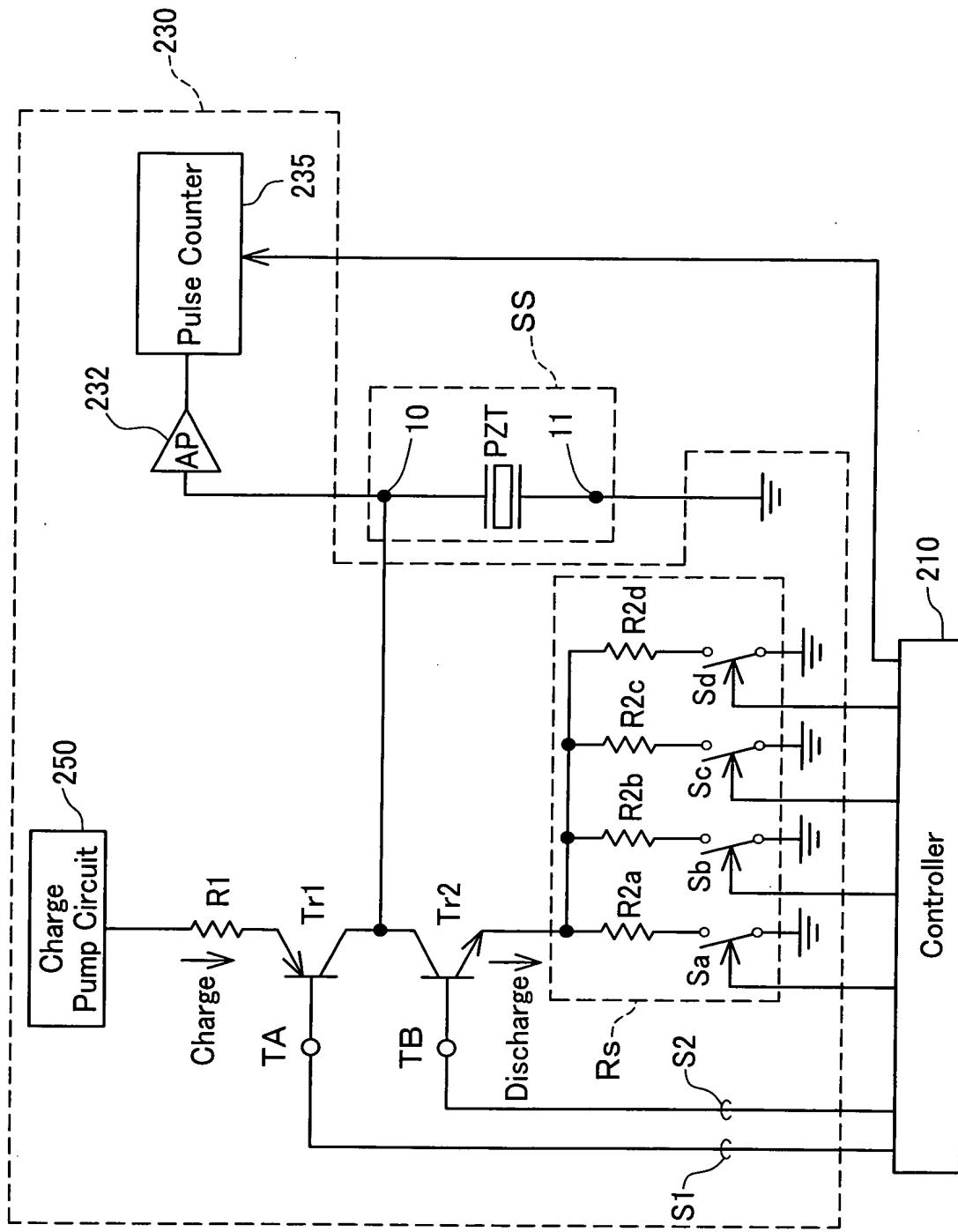
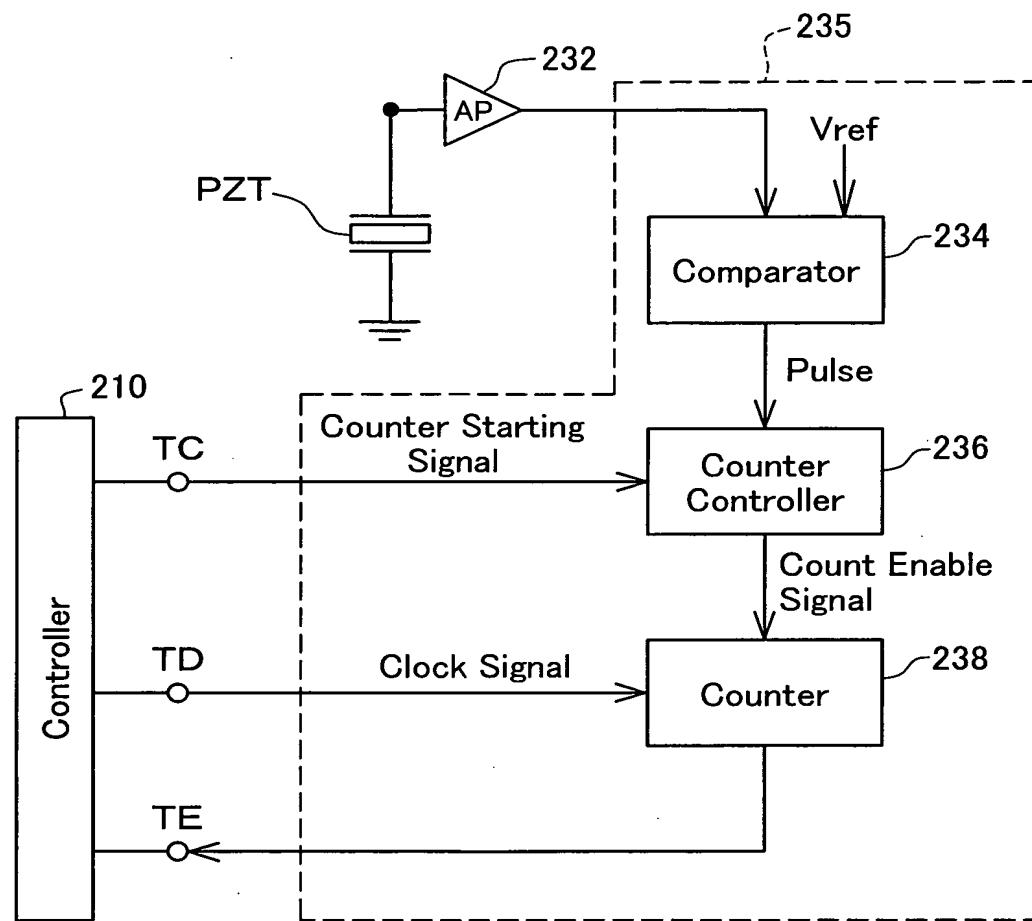


Fig. 4



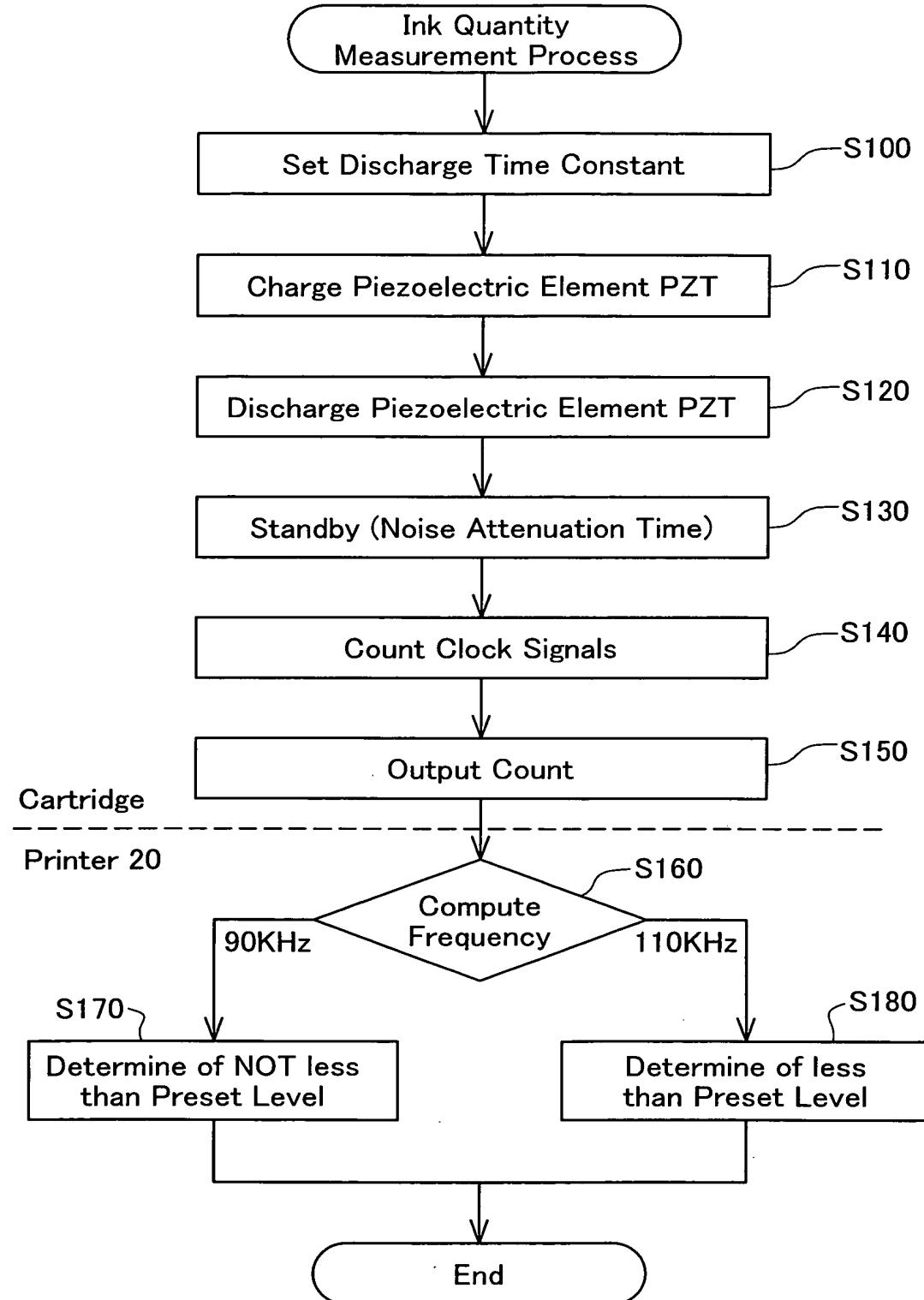
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Fig.5



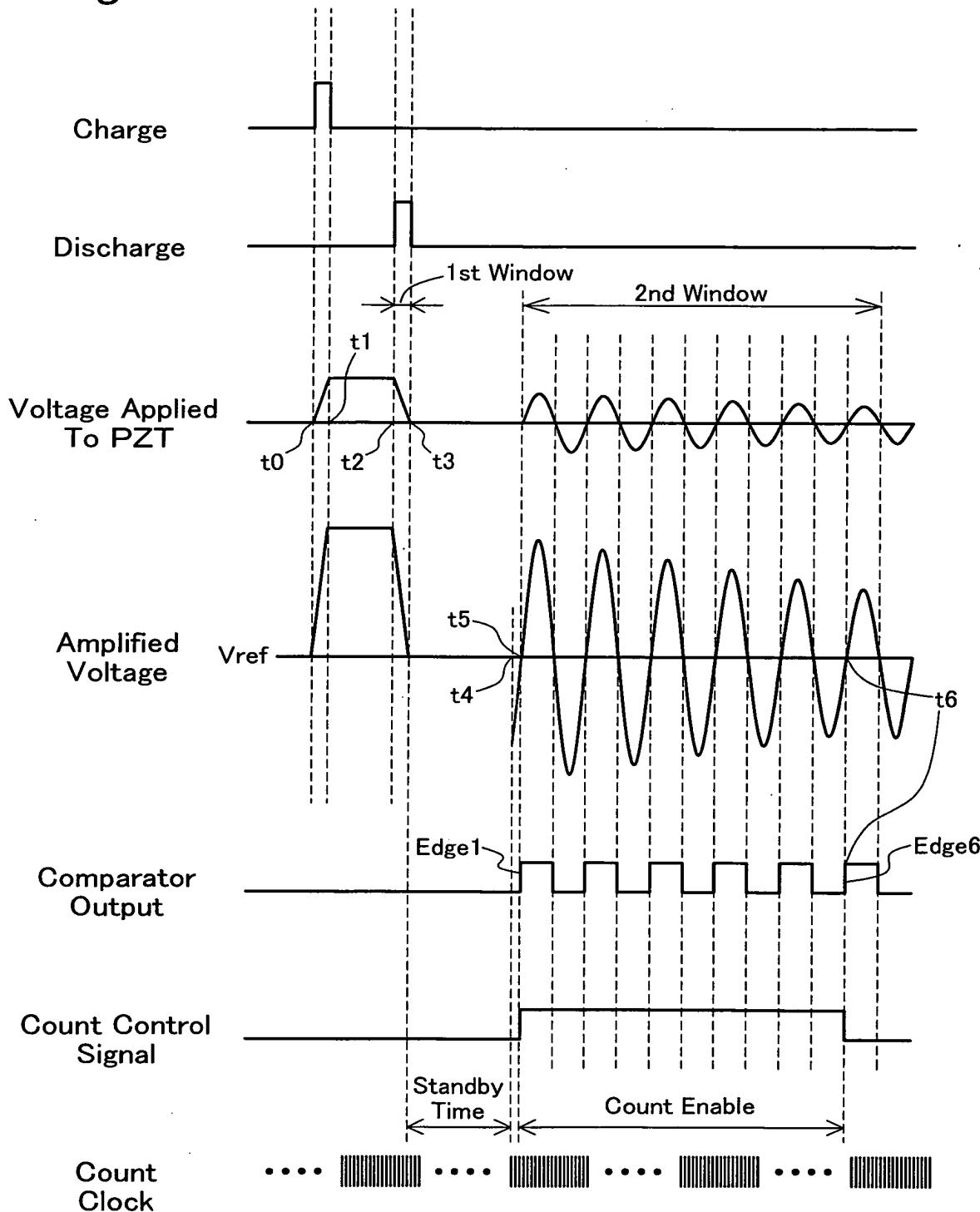
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Fig.6



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Fig.7



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Fig.8(a)

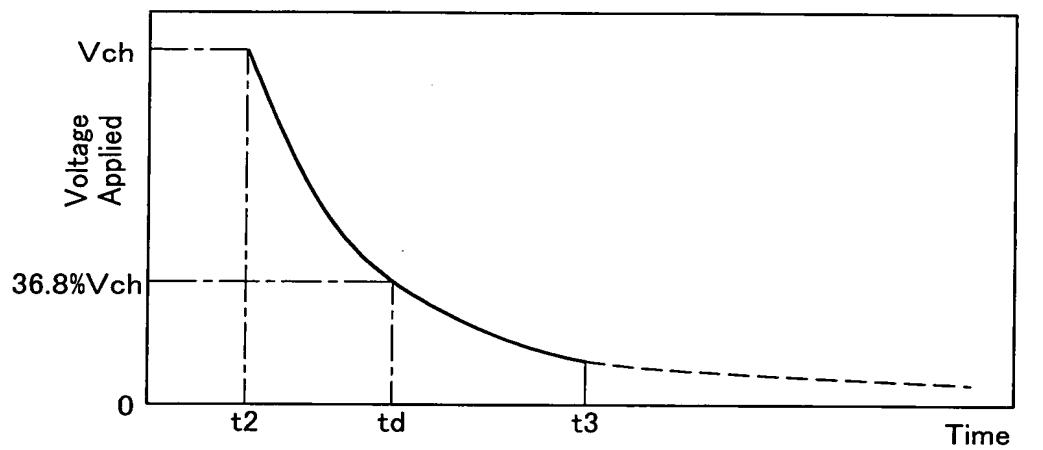
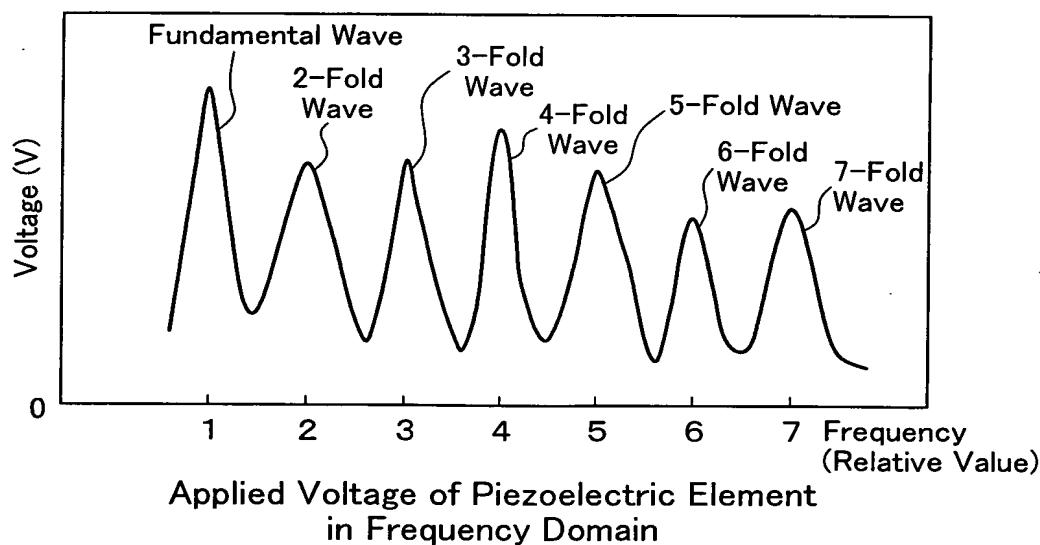
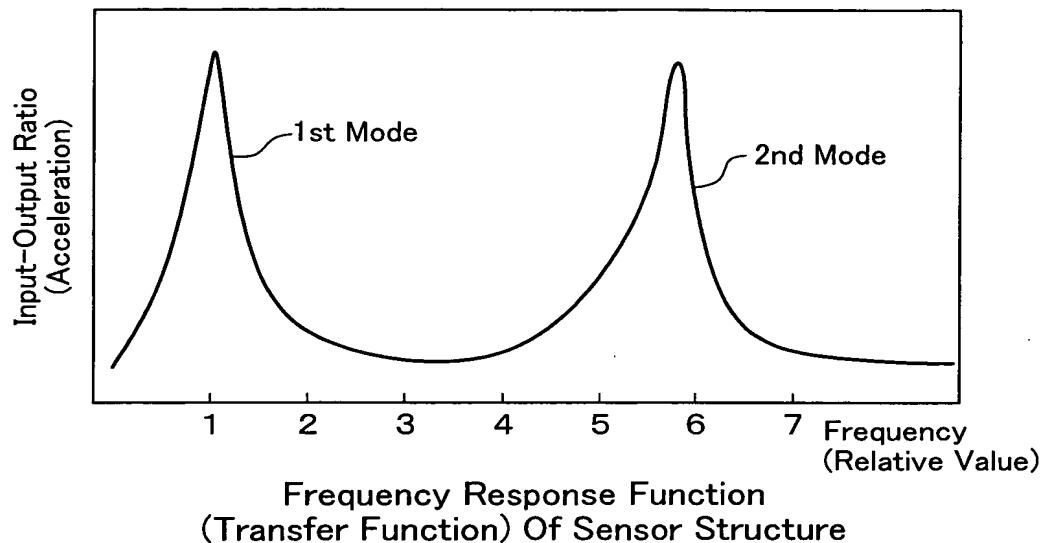
Applied Voltage Of Piezoelectric Element In Time Domain
(Discharge Time)

Fig.8(b)

Applied Voltage of Piezoelectric Element
in Frequency Domain

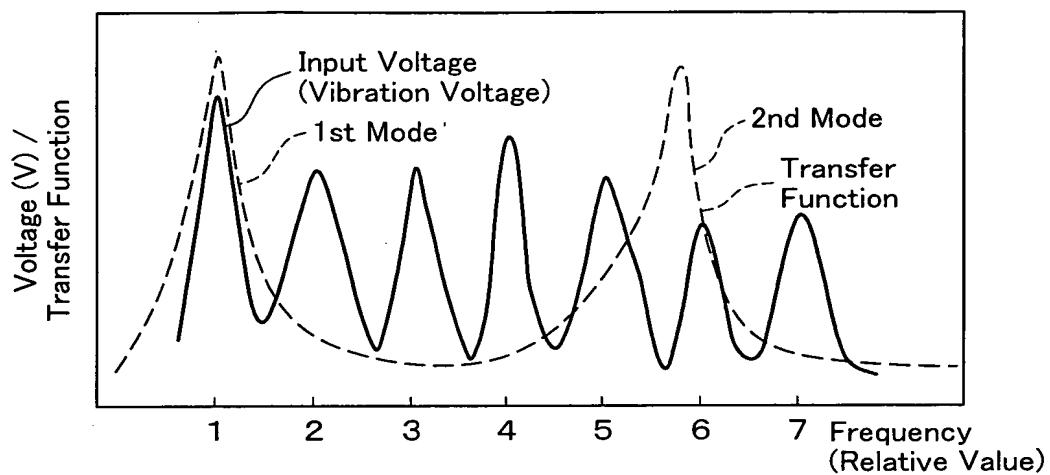
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Fig.9



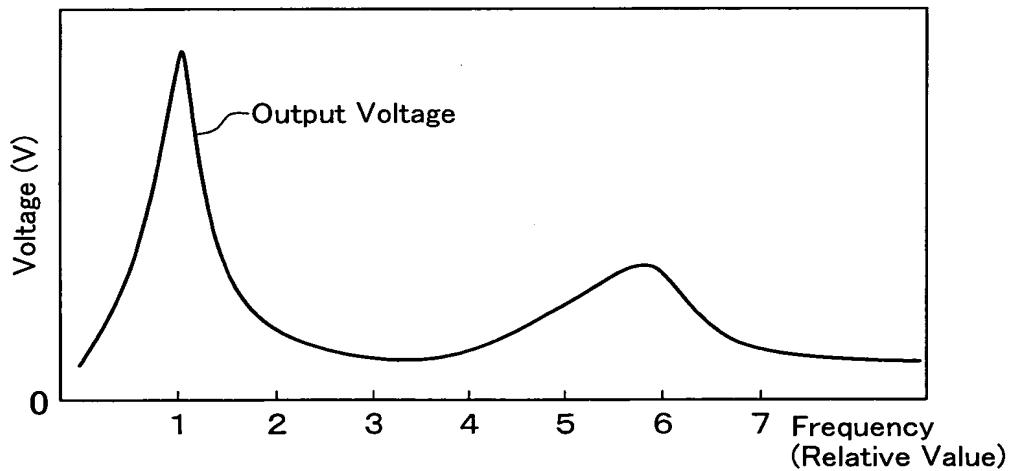
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Fig.10(a)



Vibration Voltage and Transfer Function of Sensor in Frequency Domain

Fig.10(b)



Output Voltage of Sensor in Frequency Domain